Parts Required To Build An Electric Vacuum Press System

1. Vacuum Pump
2. Main Kit Components
3. Misc. Hardware Store Items (EVS kits only)
4. Vacuum Bag

- Electric Vacuum Press Kits & Systems -

	Project: EVS™ Auto-Cycling Kit + Gast 1.1 CFM Vacuum Pump	Project: EVS™ Auto-Cycling Kit + Thomas 3 CFM Vacuum Pump	Project: EVS™ Auto-Cycling Kit + Gast 5.5 CFM Vacuum Pump	Excel 1™ Continuous Run System With Gast 1.1 CFM Vacuum Pump	Excel 5™ Continuous Run System With Gast 5.5 CFM Vacuum Pump
Type	Auto-Cycling	Auto-Cycling	Auto-Cycling	Continuous-Run	Continuous-Run
Max Bag Size Flat work: Curved work:	4' x 4' 2' x 4'	4' x 9' 4' x 4'	4' x 15' or 6' x 10' 4' x 6'	4' x 4' 2' x 4'	4' x 15' or 6' x 10' 4' x 6'
Vacuum CFM	1.1 CFM	3.15 CFM	5.5 CFM	1.1 CFM	5.5 CFM
Max Pressure	25.5" Hg	25.5" Hg	25.5" Hg	25.5" Hg	25.5" Hg
Max Force	1800 lbs per square ft.	1800 lbs per square ft.	1800 lbs per square ft.	1800 lbs per square ft.	1800 lbs per square ft.
Adjustable Vacuum	Yes (via Vacuum Controller)	Yes (via Vacuum Controller)	Yes (via Vacuum Controller)	Yes (via Bleeder Valve)	Yes (via Bleeder Valve)
Noise*	45 dB	74 dB	74 dB	45 dB	74 dB
Evacuation Time (4x4 Bag to 21" Hg)	319 seconds	129 seconds	84 seconds	174 seconds	46 seconds
Build Time (approx)	4 to 6 hours	4 to 6 hours	4 to 6 hours	20 to 30 minutes	20 to 30 minutes
Additional items not included with the kit	Misc. hardware store items & vacuum pump	Misc. hardware store items & vacuum pump	Misc. hardware store items & vacuum pump	None	None
Kit Regular Price	$189.95	$189.95	$189.95	$349.00	$489.00
Kit Sale Price	$156.90	$156.90	$156.90	$299.50	$409.50
Pump Price	$195.00	$104.00	$324.50	(included in kit)	(included in kit)
Total Cost to Build*	$396.00	$306.00	$525.50	$299.50	$409.50
Vacuum Clamping	Yes, w/ optional kit ($82.50)	Yes, w/ optional kit ($82.50)	Yes, w/ optional kit ($82.50)	Yes, w/ optional kit ($36.00)	Yes, w/ optional kit ($36.00)
Vacuum Chucking	Yes (small projects)	Yes	Yes	Yes (small projects)	Yes
Vacuum Forming	Yes	Yes	Yes	Yes	Yes
Instructions	Website & PDF	Website & PDF	Website & PDF	PDF	PDF
Advantages	Very quiet, fully adjustable, and highly adaptable to other uses such as vacuum clamping.	Fast vacuum draw, fully adjustable, and highly adaptable to other uses such as vacuum clamping.	Very fast vacuum draw, fully adjustable, and highly adaptable to other uses such as vacuum clamping.	Fully adjustable and very quiet. Makes vacuum clamping a breeze and is very easy to assemble.	Fully adjustable, can handle very large vacuum projects, and makes vacuum clamping as easy as can be.
Disadvantages	A bit heavy and takes a little more time to build than a comparable Excel kit.	A bit heavy and takes a little more time to build than a comparable Excel kit.	A bit heavy and takes a little more time to build than a comparable Excel kit.	Limited to a 4' x 4' or smaller vacuum bag, but very few users need something larger.	A bit loud and is best for commercial or industrial environments.
Comments	From a price and speed standpoint, it makes more sense to go with the rebuilt Thomas pump instead.	With the rebuilt Thomas vacuum pump, this system is affordable, reliable, and easy to build.	Perfect for the user who needs portability or wants a power-house of a vacuum press system.	Need a system quickly? This is it. Get the vacuum clamping add-on. It's worth the 36 bucks.	Surprisingly powerful. A great choice if the sound isn't an issue. The clamping add-on is worth the 36 bucks.
Image					

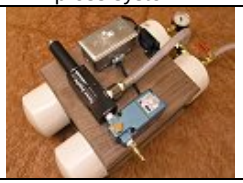
* Estimated
** Estimated for flat panels

Questions & Answers - http://www.joewoodworker.com/veneering/frequently-asked-questions.htm

Parts Required To Build An Air-Powered Vacuum Press

1. Air Compressor
2. Main Kit Components
3. Misc. Hardware Store Items
4. Vacuum Bag

- Air Powered Vacuum Press Kits –

	Project: V2™ Mini Auto-Cycling Venturi System	Project: V2™ Basic Auto-Cycling Venturi System	Project: V2™ Plus Auto-Cycling Venturi System	Project: V2™ Premium 5 Auto-Cycling Venturi System	Project: V2™ Premium 9 Auto-Cycling Venturi System
Type	Auto-Cycling	Auto-Cycling	Auto-Cycling	Auto-Cycling	Auto-Cycling
Max Bag Size Flat work: Curved work:	2' x 4' 2' x 2'	4' x 4' 2' x 4'	4' x 9' 4' x 4'	4' x 15' or 6' x 10' 4' x 6'	6' x 15' 4' x 9'
Vacuum CFM	.5 CFM	1.2 CFM	3.2 CFM	5.5 CFM	9 CFM
Max Pressure	27.5" Hg	27.5" Hg	27.5" Hg	27.5" Hg	27.5" Hg
Max Force	1925 lbs per square foot	1925 lbs per square foot	1925 lbs per square foot	1925 lbs per square foot	1925 lbs per square foot
Adjustable Vacuum	Yes (via Vacuum Controller)	Yes (via Vacuum Controller)	Yes (via Vacuum Controller)	Yes (via Vacuum Controller)	Yes (via Vacuum Controller)
Air Compressor Output Requirement	.8 CFM at 80 PSI	1.8 CFM @ 80 PSI	4.8 CFM @ 80 PSI	7.8 CFM @ 80 PSI	12.5 CFM @ 80 PSI
Noise*	68 dB	68 dB	68 dB	68 dB	68 dB
Evacuation Time (4x4 Bag to 21" Hg)**	262 seconds	118 seconds	66 seconds	38 seconds	25 seconds
Build Time (approx)	2 to 3 hours	2 to 3 hours	2 to 3 hours	2 to 3 hours	2 to 3 hours
Additional items not included with the kit	Misc. items from the hardware store	Misc. items from the hardware store	Misc. items from the hardware store	Misc. items from the hardware store	Misc. items from the hardware store
Kit Regular Price	$179.95	$179.95	$189.95	$269.99	$297.99
Kit Sale Price	$149.50	$149.50	$159.50	$235.00	$263.00
Total Cost to Build*	$179.50	$179.50	$189.50	$265.00	$293.00
Vacuum Clamping	Yes, w/ optional kit ($82.50)	Yes, w/ optional kit ($82.50)	Yes, w/ optional kit ($82.50)	Yes, w/ optional kit ($82.50)	Yes, w/ optional kit ($82.50)
Vacuum Chucking	No	Yes (small projects)	Yes	Yes	Yes
Vacuum Forming	Yes	Yes	Yes	Yes	Yes
Instructions	Website & PDF	Website & PDF	Website & PDF	PDF	PDF
Advantages	Great for very small compressors, very easy to build and ultra-reliable.	Great for small compressors, very easy to build and of course it's ultra-reliable.	Very reliable and easy to build. Great vacuum speed at a super low cost.	Not only is it easy to build, it's also reliable and quite speedy. You'll be surprised!	A system like this can handle almost any veneering project that you can imagine.
Disadvantages	It's not as fast as some users prefer and has a lower performance-to-cost ratio.	Faster than the Mini version but not as fast as the other kits offered here.	Requires a small to medium size compressor but it's very efficient with the air.	Requires a decent size air compressor and uses 7.8 CFM of air to create vacuum.	Requires a large air compressor and uses 12.5 CFM of air to create vacuum.
Comments	This system is best suited for smaller projects but if you own a small air compressor, it's not a bad deal.	If your compressor will allow it, spend an extra 10 bucks to get the "Plus" model. It's a very worthwhile upgrade.	This is the kit that gives you the most bang for your buck. This is one of my favorite vacuum presses.	The upgraded parts cause a jump in price but overall, this is a very cost effective vacuum press system.	This is an industrial grade vacuum press system at a fraction of the price. Build it and save!
Image					

* Estimated

** Estimated for flat panels

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Veneer Supplies.com
The Internet Source For Exotic Veneer & Supplies

Joe Woodworker.com

- Vacuum Pressing Bags –

Nominal Size (Width x Length)	Actual Size (Width x Length)	Included Bag Closure	Min. Vacuum Flow *	Material Name	Material Type	Seam Method **	Vaxcell Infusion ***	VeneerSupplies.com Price
2' x 2'	27" x 27"	29"	1 CFM	Dura-Max™	30 Mil Vinyl	RF Welded	No	$42.50
2' x 4'	27" x 54"	29"	1 CFM	Dura-Max™	30 Mil Vinyl	RF Welded	No	$66.50
2' x 4'	27" x 54"	29"	1 CFM	Dura-Max Elite™	20 Mil Polyurethane	RF Welded	Yes	$99.00
2' x 4'	27" x 54"	29"	1 CFM	Dura-Max Extreme™	30 Mil Polyurethane	RF Welded	Yes	$134.50
2' x 6'	27" x 78"	29"	1 CFM	Dura-Max™	30 Mil Vinyl	RF Welded	No	$86.00
2' x 9'	27" x 114"	29"	1 CFM	Dura-Max Elite™	20 Mil Polyurethane	RF Welded	Yes	$148.20
2' x 12'	27" x 150"	29"	3 CFM	Dura-Max Elite™	20 Mil Polyurethane	RF Welded	Yes	$169.50
2' x 21'	27" x 258"	29"	5 CFM	Dura-Max Elite™	20 Mil Polyurethane	RF Welded	Yes	$249.50
4' x 4'	54" x 54"	58"	1 CFM	Dura-Max™	30 Mil Vinyl	RF Welded	No	$99.95
4' x 4'	54" x 54"	58"	1 CFM	Dura-Max Elite™	20 Mil Polyurethane	Seamless	Yes	$172.00
4' x 4'	54" x 54"	58"	1 CFM	Dura-Max Extreme™	30 Mil Polyurethane	Seamless	Yes	$215.00
4' x 6'	54" x 78"	58"	3 CFM	Dura-Max™	30 Mil Vinyl	RF Welded	No	$133.50
4' x 6'	54" x 78"	58"	3 CFM	Dura-Max Elite™	20 Mil Polyurethane	Seamless	Yes	$199.00
4' x 6'	54" x 78"	58"	3 CFM	Dura-Max Extreme™	30 Mil Polyurethane	Seamless	Yes	$250.50
4' x 8'	54" x 100"	58"	3 CFM	Dura-Max™	30 Mil Vinyl	RF Welded	No	$160.00
4' x 9'	54" x 114"	58"	3 CFM	Dura-Max Elite™	20 Mil Polyurethane	Seamless	Yes	$239.00
4' x 9'	54" x 114"	58"	3 CFM	Dura-Max Extreme™	30 Mil Polyurethane	Seamless	Yes	$329.00
4' x 12'	54" x 150"	58"	5 CFM	Dura-Max Elite™	20 Mil Polyurethane	Seamless	Yes	$315.50
4' x 12'	54" x 150"	58"	5 CFM	Dura-Max Extreme™	30 Mil Polyurethane	Seamless	Yes	$384.00
4' x 15'	54" x 186"	58"	5 CFM	Dura-Max Elite™	20 Mil Polyurethane	Seamless	Yes	$385.50
6' x 6'	78" x 78"	82"	3 CFM	Dura-Max Extreme™	30 Mil Polyurethane	RF Welded	Yes	$345.00
6' x 10'	78" x 126"	82"	5 CFM	Dura-Max Extreme™	30 Mil Polyurethane	RF Welded	Yes	$550.00
6' x 15'	78" x 186"	82"	5 CFM	Dura-Max Extreme™	30 Mil Polyurethane	RF Welded	Yes	$795.00

* The required vacuum flow for flat panel work.
** This refers to the *edge* seams. All Dura-Max™ vacuum bags have an RF welded *end* seam.
*** Dura-Max Elite™ and Extreme™ vacuum bags are infused with a non-transferring lubricant that prevents veneering adhesives from sticking to the bag.

Please Note

- All VeneerSupplies.com vacuum bags are assembled in the USA.
- To connect your vacuum tube to the vacuum bag, a Lock-On Connector (available at VeneerSupplies.com) is required.
- Each vacuum bag includes one bag closure.
- The vacuum bags are sealed on three sides but some users prefer to have two open ends. To do this, simply trim off the end seal and purchase an additional bag closure from our website.
- Our vacuum bags include the new flush-mount valve stem assembly that allows you to use the full length of the vacuum bag without worry of project surface damage. A specially designed 2.5" diameter 50 mil flange is molded onto the valve body and is permanently welded onto each bag. The valve stem is mounted in the center (left to right) and approximately 15" in from the bag opening.

Don't Forget Breather Mesh

Breather mesh is a unique plastic fabric that is used in the vacuum bag to allow air to flow across the project being pressed and towards the vacuum port or valve stem. It is used in place of a top platen. Without it, the vacuum bag material will seal itself against the veneer causing pockets of air to form. These pockets have little or no vacuum pressure inside and therefore do not provide the even clamping strength required to keep the veneer flat during the vacuum pressing process. Use breather mesh to distribute vacuum pressure evenly throughout the bag. This is the key to successful vacuum pressing!

Learn more about vacuum bags at http://www.joewoodworker.com/veneering/faq.htm